

PATENT ABSTRACTS OF JAPAN

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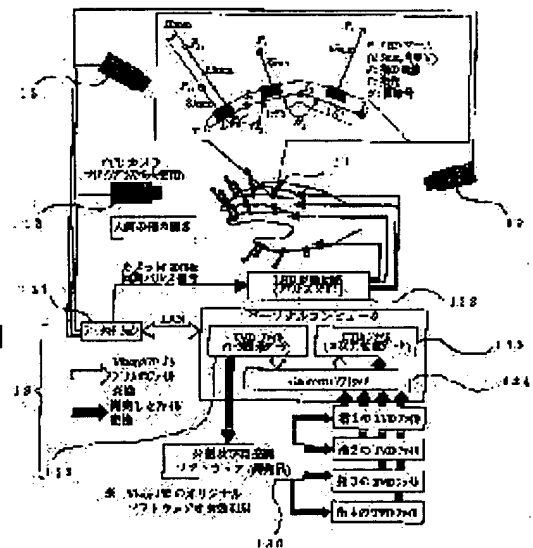
(54) SYSTEM FOR MEASURING FINGER MOVEMENT

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a system for measuring an available movement of fingers in high accuracy and high sampling grade.

SOLUTION: This system of measuring the movements of fingers 1 is equipped with plural light sources 11 attached to the fingers, a high-speed camera 12 for photographing the light sources 11 and a device for processing signals 13 for calculating a three-dimensional position of a finger by processing the signals outputted from the high-speed camera 12. The light source 11 is provided with a fixing member 111 that sandwiches the finger for fixing it, a pin member 112 extending toward the top side of finger and an LED 113 covered with a spherical glass cover, and plural light sources 11

attached to each one of fingers are sequentially lighted by pair as a group. The high-speed camera 12 photographs the light sources sequentially lit by a group one after another, and the device for processing signals 13 calculates an image data of each finger from the signals outputted from the high-speed camera 12, thereby determining a three-dimensional position of each finger.



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